TOSHIBA

Storage Device Division www.toshiba-europe.com/storage

Discover Storage

MK4036GAC
MK4036GACE
2.5-inch 40 GB HDD
Temperature Enhanced

Benefits:

Built for extreme environments
Up to 2.0 G vibration tolerance
-30° to 85°C temperature range
Minimum Noise

Toshiba proudly introduces its premiere range of temperature enhanced hard disk drives specifically for the industrial market. Both the MK4036GAC and the MK4036GACE feature improved capacity and provide alternative temperature ranges to assist industrial machine manufacturers and after market suppliers in designing robust, storage-hungry automated applications.

The Temperature Enhanced Drive (TED) from Toshiba are able to withstand temperature ranges from -30° to +85° (MK4036GAC) and from -16° to 70° (MK4036GACE). The wide temperature specifications and humidity control provide unsurpassed reliability amid extreme operating conditions. The underlying technology in Toshiba TED is similar to its range of automotive drives. Toshiba's line of automotive HDDs enable a variety of applications, such as GPS navigation, digital music and video and other telematic systems. Due the company's pioneering technology in this area along with 85% world market share in the automotive HDD business, TED has been introduced due to demands from the industrial sector for rugged, high capacity storage in temperature volatile environments.

Features:

	MK4036GAC	MK4036GACE
Data Storage Capacity:		
Per Drive, Formatted	40 GB	
Number of Platters	1	
Number of Heads	2	
Bytes/Sector	512	
Seek Time		
Track-to-Track	3 ms	
Average	16 ms	
Maximum	28 ms	
Rotational Speed	4,200 rpm	
Interface		
Type	ATAPI-6	
Transfer Rate to host	100MB/sec	
Buffer	8 MB	
Nominal Power Requirements		
Voltage Supply	5 V	
Start	5.5 W (-20 to 85°) 6.5 W (-30 to –20°)	5.5 W
Sleep (Watts)	0.1 W	
Standby (Watts)	0.25 W	
Read/Write (Watts)	2.0 W	
Idle	1.0 W	
Low Power Idle	0.8 W	
Seeking (Watts)	2.3 W	
Dimensions :		
Height	9.5 mm	
Width	69.85 mm	
Depth	100 mm	
Weight	96 g	
Physical & Environmental Specifications		
Temperature Operating	-30° to 85°	-16° to 70°
Temperature Non-Op.	-40° to 85°	-40° to 80°
Vibration-Operating	2.0 G max	
Shock-operation	200 G	
Shock-Non operation	800 G	
Error Rates		
Unrecoverable	1 error per 10^{13} bits read	
Seek	1 error per 10^{6} seeks	

Applications:

Industrial PC
Cash Systems
Automation Systems
Automotive Applications
CE Applications
GPS Navigation Systems
PVR
Video Surveillance

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